



TARPIN, A STRING MUSICAL INSTRUMENT

BACKGROUND

(1) Technical Field

- 5 The present invention relates to the field of musical instruments, and more particularly to Tarpin, a string musical instrument.

(2) Discussion

- 10 String musical instruments have been well known in the art for thousands of years. One such instrument was Lyre. Over 3000 B.C. in Greece, Egypt, Samaria, Rome and Armenia Lyre was quite popular.

- A lyre is a stringed musical instrument, in which two arms jut out on one side of the instrument's body and at their tips support a yoke or crossbar to which gut strings are attached. The strings run to the body, across the belly or soundboard, over a bridge, and
15 to a stringholder at the lower end of the belly. In box lyres, the body and belly form a hollow wooden box; in bowl lyres, the body may be a tortoise shell or carved bowl, and the belly is of animal skin.

- Box lyres with asymmetrical arms were known in ancient Sumeria by 2800 BC; this western Asian lyre was also played in ancient Egypt, as was a smaller symmetrical lyre.
20 Lyres were extremely popular in Greece and were associated with the god Apollo. Two main varieties were made. The kithara, played by professional musicians was a box lyre with thick, symmetrical, hollow arms; it was plucked with a plectrum, or pick. The lyra, played by amateurs and plucked with the fingers, was a bowl lyre, typically a tortoise shell with a belly of bull's hide.

- 25 The kinnor of the ancient Hebrews, the instrument of King David, was like the kithara. In modern times similar lyres, with or without a bridge, are played in East Africa. They include the Beganna, which was also like the kithara, and the lyra-like krar, both of Ethiopia. In African and ancient lyres the strings are wound around the crossbar and tightened by adjusting the windings or by inserting small wooden wedges in the
30 windings. The left-hand fingers typically damp the unwanted strings, while the right-hand

fingers sweep across all the strings, either directly or with a plectrum. In the Middle Ages box lyres were widely used in northern Europe until about AD 1000. These lyres usually had crossbars carved of the same piece of wood as the body and arms; they also had tuning pegs. Until about 1000 they were plucked; thereafter, bowing them was more
5 common. Bowed lyres survived into the 20th century in Finland and Estonia. In Wales, the Croth, which had a fingerboard running from the crossbar to the body, was played into the 19th century.

However, a musician could not play very many notes on the Lyre in any of the previous forms, as they did not have frets. Therefore, upon the discovery of more advanced string
10 instruments (i.e. Guitar, Violin, etc.) that had frets, Lyre became antiquated and obsolete and eventually forgotten. Today, only a few renovated models and some pictures of the traditional Lyre are displayed in museums in Germany and England. Also, certain African Lyres are still used for choral songs, magic, witchcraft, or curative purposes.

15 Today, there is a need in the art for an instrument that has the artistic beauty of a Lyre, yet able to produce a vast range of notes. The present invention, Tarpin, resembles a Lyre in its artistic form and shape, while it enables a musician to play all European and international scales, including melodies in the form of polyphonic and homophonic along with harmony. Tarpin is superior to all other string instruments in the prior art, in that a
20 musician can play an enormous range of notes on eleven (11) strings, with very limited movement of one hand over the fret, while most other instrument require the musician to move his hand along the neck of the instrument. On an eleven (11) string Tarpin, a musician can play up to four and half octaves, with hardly any movement of a hand over the frets. Although, Tarpin is exceptionally simple to play, it can achieve all melodies,
25 chords, and arpeggios along with harmony. There are many chords in many inversions that can only be played on Tarpin. In the preferred embodiment of the present invention, Tarpin has five (5) frets and eleven (11) strings. In its preferred embodiment, Tarpin has a tuning box that makes it possible for a performer to easily and quickly tune the instrument with the use of an Allen wrench. Tarpin is an ideal instrument that looks and
30 sounds divine. It is truly a gift to the world of art and music.

SUMMARY

The present invention is a string musical instrument having a body with a hole in the center for sound resonance, an upper bridge at the top and a lower bridge at the bottom. There is a plurality of long frets connected with the top of the body directly below the upper bridge whereby the frets are distanced so as to produce sounds that are a half note apart. There is also a plurality of tuning boxes attached to the bottom of the body, which are used to tune the instrument. There is further a plurality of strings, running through the upper and lower bridge secured from the top on the back of the body and from the bottom to the tuning box. A performer holds the instrument with the bottom on his lap and places one hand on the top over the upper bridge with fingers projected over the frets to change the pitch and with the fingers of the other free hand plucks the string to produce music.

The apparatus may be produced as a stand-alone device, or it may be integrated with an amplifier and a speaker to amplify the sound.

In a further embodiment, the apparatus further includes two long necks projecting outwards from both sides of the body resembling a traditional Lyre.

BRIEF DESCRIPTION OF THE DRAWINGS

These and other features, aspects, and advantages of the present invention will become better understood with regard to the following description, appended claims, and accompanying drawings where:

FIG. 1A-1D are pictorial representations of front, side, and back of a Tarpin according to the present invention;

FIG. 2A-2C are pictorial representations of front, side, and back of another embodiment of a Tarpin according to the present invention;

FIG. 3A-3D are pictorial representations of yet another embodiment of front, side, and back of a Tarpin according to the present invention;

FIG. 4 is a pictorial representation of a tuning box of a Tarpin according to the present invention;

5 FIG. 5 is yet another pictorial representation of a tuning box of a Tarpin comprising holes for use by an Allen wrench according to the present invention;

FIG. 6 is a pictorial representation of the back of an upper bridge of a Tarpin comprising indentations for securing a guitar string according to the present invention;

FIG. 7 is a pictorial representation of the long frets of a Tarpin according to the present
10 invention; and

DETAILED DESCRIPTION

The present invention relates to the field of musical instruments, and more particularly to
15 Tarpin, a string musical instrument. The following description is presented to enable one of ordinary skill in the art to make and use the invention and to incorporate it in the context of particular applications. Various modifications, as well as a variety of uses in different applications will be readily apparent to those skilled in the art, and the general principles defined herein may be applied to a wide range of embodiments. Thus, the
20 present invention is not intended to be limited to the embodiments presented, but is to be accorded the widest scope consistent with the principles and novel features disclosed herein.

In order to provide a working frame of reference, first a glossary of some of the terms
25 used in the description and claims is given as a central resource for the reader. The glossary is intended to provide the reader with a “feel” for various terms as they are used in this disclosure, but is not intended to limit the scope of these terms. Rather, the scope of the terms is intended to be construed with reference to this disclosure as a whole and with respect to the claims below. Then, a brief introduction is provided in the form of a
30 narrative description of the present invention to give a conceptual understanding prior to developing the specific details.

(1) Glossary

Before describing the specific details of the present invention, it is useful to provide a centralized location for various terms used herein and in the claims. The terms defined
5 are as follows:

Amplifier – Amplifier is intended to be an electronic amplifier or any electronic means for amplification of sound.

10 Fret – Bars that designate certain spaces on the string for finger placement. The distance between the frets determines the variation of the pitch.

Speaker – Speaker is intended to include any means for converting electrical signals to sounds.

15 String – Any pliable string, metal or plastic used for guitar or other instruments.

Tarpin – The string musical instrument of the present invention.

(2) Introduction

20 The present invention is a string musical instrument having a body with a hole in the center for sound resonance, an upper bridge at the top and a lower bridge at the bottom. There is a plurality of long frets connected with the top of the body directly below the upper bridge whereby the frets are distanced so as to produce sounds that are a half note apart. There is also a plurality of tuning boxes attached to the bottom
25 of the body, which are used to tune the instrument. There is further a plurality of strings, running through the upper and lower bridge secured from the top on the back of the body and from the bottom to the tuning box. A performer holds the instrument

with the bottom on his lap and places one hand on the top over the upper bridge with fingers projected over the frets to change the pitch and with the fingers of the other free hand plucks the string to produce music.

5 (3) Discussion

FIG. 1A-1D are pictorial representations of front, side, and back of a Tarpin according to the present invention. Tarpin comprises a hollow body **100** or resonance chamber having a front **102**, a back **104**, a top **106**, a bottom **108**, a left side **110**, a right side **112**, and a hole **114** in the center of the front **102** for sound resonance. An upper bridge **116** is
10 connected to the top **106** of the body **100** and horizontal to the length of the body **100**. A lower bridge **118** is attached to the front **102** near the bottom **108** of the body **100** and horizontal to the length of the body **100** and parallel to the upper bridge **116**. A plurality of long frets **120** are connected with the top **106** of the body **100** and running horizontally along the length of the body **100** and parallel to the upper **116** and lower bridge **118**,
15 directly below the upper bridge **116** whereby the long frets **120** are distanced so as to produce sounds that are a half note apart. A plurality of tuning boxes **122** is attached to the bottom **108** of the body **100**. A plurality of strings **124**, equal in number to the tuning boxes **122**, is connected with the body **100** and running vertically along the length of the body **100** from the top **106** to the bottom **108** running through the upper bridge **116** and
20 lower bridge **118** and perpendicular to the long frets **120**.

In the preferred embodiment of the present invention, Tarpin has eleven (11) strings **124**, which are tuned according to the eleven (11) lines of a musical staff with five (5) lines in the treble clef, five (5) lines in the base clef, and one middle leger line, as the middle C,
25 totaling eleven (11) strings **124**.

In the preferred embodiment of the present invention, Tarpin, the body **100** has two necks **126** on the left side **110** and the right side **112** of the body **100** extending upwards and away from one another twirling inwards to resemble a traditional Lyre. In this
30 embodiment, the two necks **126** extend upward starting from a point along the body

below the upper bridge **116** creating an empty space between the body **100**, the upper bridge **116**, and the two necks **126** whereby the necks **126** are connected to one another in the bottom by the body **100** and in the top by the upper bridge **116** and the long frets **120** are connected to the two necks **126** on both sides.

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FIG. 2A-2C are pictorial representations of front, side, and back of another embodiment of a Tarpin according to the present invention. In this embodiment, Tarpin comprises a hollow body **200** or resonance chamber having a front **202**, a back **204**, a top **206**, a bottom **208**, a left side **210**, a right side **212**, and a hole **214** in the center of the front **202** for sound resonance. An upper bridge **216** is connected to the top **206** of the body **200** and horizontal to the length of the body **200**. A lower bridge **218** is attached to the front **202** near the bottom **208** of the body **200** and horizontal to the length of the body **200** and parallel to the upper bridge **216**. A plurality of long frets **220** are connected with the top **206** of the body **200** and running horizontally along the length of the body **200** and parallel to the upper **216** and lower bridge **218**, directly below the upper bridge **216** whereby the long frets **220** are distanced so as to produce sounds that are a half note apart. A plurality of tuning boxes **222** is attached to the bottom **208** of the body **200**. A plurality of strings **224**, equal in number to the tuning boxes **222**, is connected with the body **200** and running vertically along the length of the body **200** from the top **206** to the bottom **208** running through the upper **216** bridge and lower bridge **218** and perpendicular to the long frets **220**.

In this embodiment of the present invention also, Tarpin has eleven (11) strings **224**, which are tuned according to the eleven (11) lines of a musical staff with five (5) lines in the treble clef, five (5) lines in the base clef, and one middle leger line, as the middle C, totaling eleven (11) strings **224**.

In this embodiment of the present invention, Tarpin, the body **200** has two necks **226** on the left side **210** and the right side **212** of the body **200** extending upwards and away from one another twirling inwards to resemble a traditional Lyre. In this embodiment, the two necks **226** extend upward starting from a point of the body **200** directly below the long

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frets **220**, whereby the necks **226** are connected to one another by the upper bridge **216** and the long frets **220** are connected to the two necks **226** on both sides. In this embodiment, the body **200** is hexagonal in shape.

5 FIG. 3A-3D are pictorial representations of yet another embodiment of front, side, and back of a Tarpin according to the present invention. In this embodiment, Tarpin comprises a hollow body **300** or resonance chamber having a front **302**, a back **304**, a top **306**, a bottom **308**, a left side **310**, a right side **312**, and a hole **314** in the center of the front **302** for sound resonance. An upper bridge **316** is connected to the top **306** of the
10 body **300** and horizontal to the length of the body **300**. A lower bridge **318** is attached to the front **302** near the bottom **308** of the body **300** and horizontal to the length of the body **300** and parallel to the upper bridge **316**. A plurality of long frets **320** are connected with the top **306** of the body **300** and running horizontally along the length of the body **300** and parallel to the upper **316** and lower bridge **318**, directly below the upper
15 bridge **316** whereby the long frets **320** are distanced so as to produce sounds that are a half note apart. In this embodiment, a plurality of short frets **328** is connected to the body **300** immediately below the long frets **320** providing for a longer range of tonality enabling a performer to play higher notes. Furthermore, a plurality of tuning boxes **322** is attached to the bottom **308** of the body **300**. A plurality of strings **324**, equal in number
20 to the tuning boxes **322**, is connected with the body **300** and running vertically along the length of the body **300** from the top **306** to the bottom **308** running through the upper **316** bridge and lower bridge **318** and perpendicular to the long frets **320**.

In this embodiment of the present invention also, Tarpin has eleven (11) strings **324**,
25 which are tuned according to the eleven (11) lines of a musical staff with five (5) lines in the treble clef, five (5) lines in the base clef, and one middle leger line, as the middle C, totaling eleven (11) strings **324**.

In this embodiment of the present invention, Tarpin, the body **300** has two necks **326** on
30 the left side **310** and the right side **312** of the body **300** extending upwards

asymmetrically. In this embodiment, the two necks **326** extend upward starting from a point along the body **300**.

In this embodiment of the present invention, an amplifier **330** is connected to the body **300** to receive a sound signal therefrom and to amplify the sound signal to generate an amplified signal such that the sounds are more audible.

FIG. 4 is a pictorial representation of a tuning box of a Tarpin according to the present invention. The tuning box **400** is made of a bolt **402**, a nut **404**, a tailpiece **406**, a clapper **408**, and a grooved metal covering **410**, wherein the clapper **408** is fixed on the nut **404** and placed in the groove of the metal covering **410**. A string **412** is connected to the bolt **402** of the tuning box **400**, wherein winding the bolt **402**, will move the nut **404** and tune the string **412**.

FIG. 5 is yet another pictorial representation of a tuning box of a Tarpin comprising holes for use by an Allen wrench according to the present invention. The tuning box **500** is made of a plurality of bolts **502**, nuts **504**, tailpieces **506**, clappers **508**, and a grooved metal covering **510**, wherein the clappers **508** are fixed on the nut **504** and placed in the groove of the metal covering **510**. A string **512** is connected to the bolt **502** of the tuning box **500**, wherein winding the bolt **502**, will move the nut **504** and tune the string **512**. At the tuning box **500** of the preferred embodiment of the present invention, the bolt **502** is associated with holes **514** tailored for use by an Allen wrench **516**.

FIG. 6 is a pictorial representation of the back of an upper bridge of a Tarpin comprising indentations for securing a guitar string according to the present invention. In the preferred embodiment of the present invention, the strings **600** are secured from the top on the back of the body by indentations **602** in the back of the upper bridge **604**.

FIG. 7 is a pictorial representation of the long frets of a Tarpin according to the present invention. A plurality of long frets **700** are connected to the body below the upper bridge **702**, whereby strings **704** are positioned perpendicular to the long frets **700**.